

June 1967



Now, Lambda offers the broadest line of all-silicon power supplies for test equipment and laboratory use

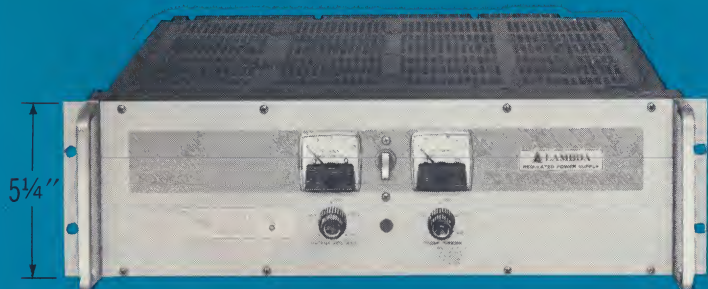
High current • .015% regulation • all convection cooled



Full Rack 7" LK Series



1/4 Rack LH Series

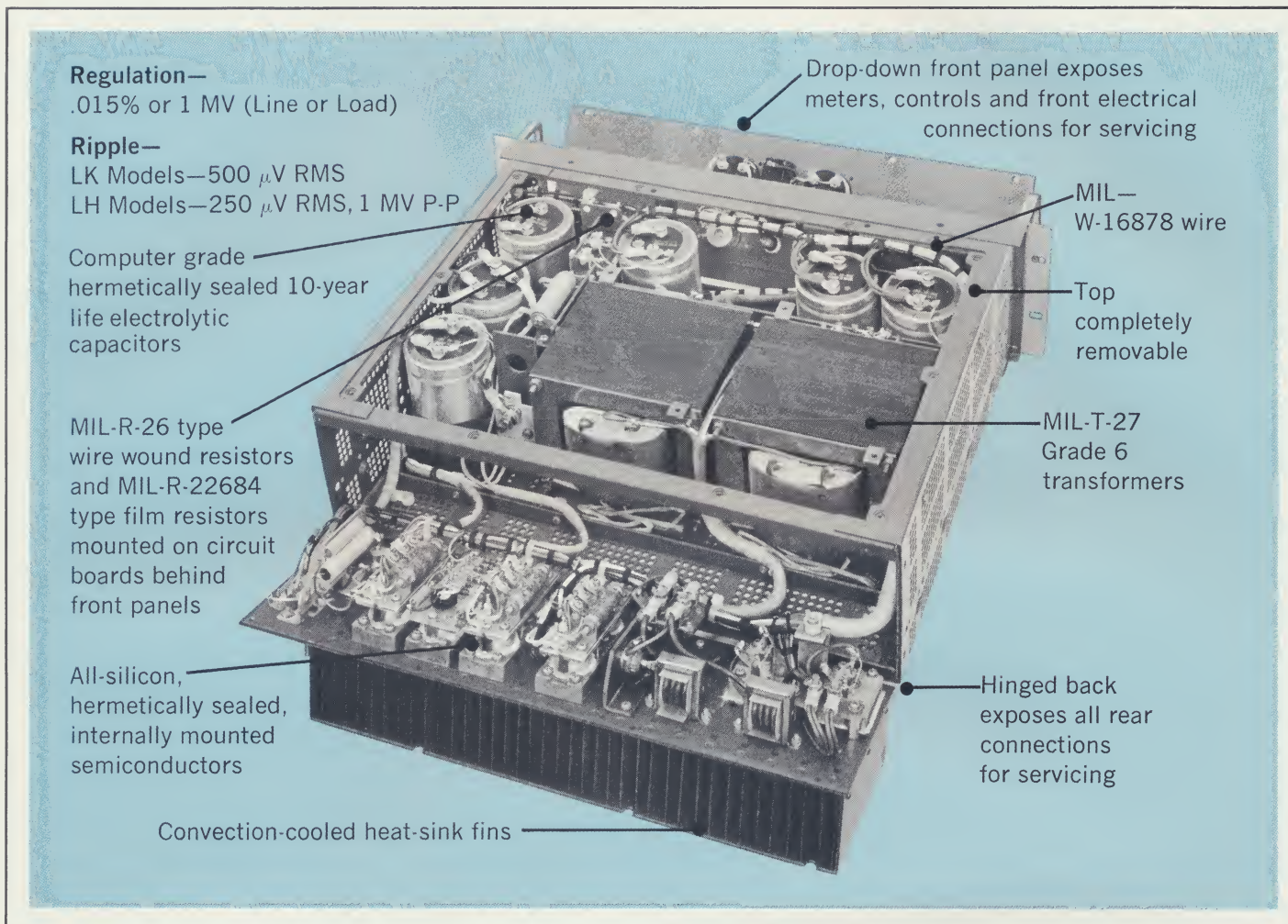


Full Rack 5 1/4" LK Series



1/2 Rack LK Series-LH Series

New Lambda LK-LH series offer highest current, smallest packages, lowest cost.



Features and Data

- **Convection Cooled**
- **Overvoltage Protection**
Available for all models
- **Remotely Programmable**
- **Remote Sensing**
- **Temp. Coef.** .015%/°C
- **Transformer**—designed to MIL-T-27 Grade 6
- **Completely Protected**—Short circuit proof—Continuously adjustable automatic current limiting
- **Constant I./Constant V.** by automatic crossover
- **Meet Mil. Environment Specs.**
Vibration: MIL-T-4807A
Shock: MIL-E-4970A Proc. 1 & 2
Humidity: MIL-STD-810 Meth. 507
Temp. Shock: MIL-E-5272C (ASG) Proc. 1
Altitude: MIL-E-4970A (ASG) Proc. 1
Marking: MIL-STD-130
Quality: MIL-Q-9858

- **Series/Parallel Operation**
- **No Voltage Spikes or Overshoot** on "turn on", "turn off" or power failure
- **Wide Input Voltage and Frequency Range—**
Models LK 360 FM-362 FM—200-250 VAC, 47-63 Hz.
Other LK models—105-132 VAC, 47-63 Hz.
LH models—105-135 VAC, 45-480 Hz.
- **LH models meet RFI Spec.**—Mil-I-16910

Accessories

Rack Adapter LRA-1
5¼" Height x 16½" Depth
(For use with chassis slides) Price \$60.00

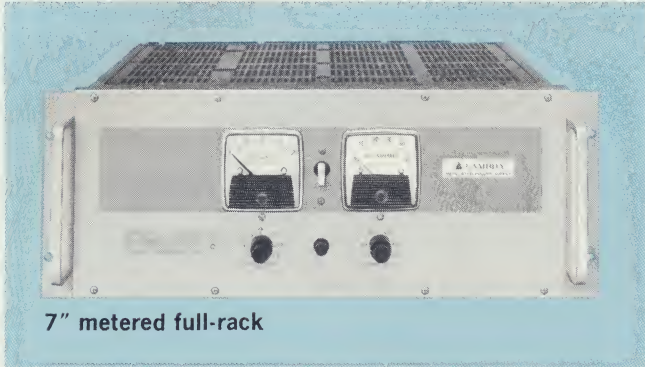
Rack Adapter LRA-2
5¼" Height Price \$25.00

Blank Front Panels
Model LBP-10 (¼ rack size) Price \$5.00
Model LBP-20 (½ rack size) Price \$7.50



22 models for rack or bench use

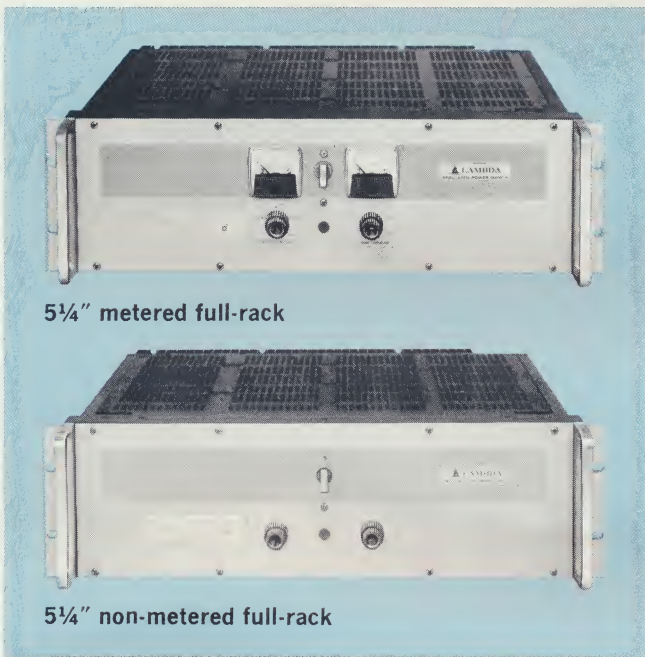
LK-LH
SERIES



7" metered full-rack

Size 7" x 19" x 18½"

Model ²	Voltage Range	CURRENT RANGE AT AMBIENT OF: ¹				Price ²
		40°C	50°C	60°C	71°C	
LK 360 FM	0-20VDC	0-66A	0-59A	0-50A	0-40A	\$995
LK 361 FM	0-36VDC	0-48A	0-43A	0-36A	0-30A	950
LK 362 FM	0-60VDC	0-25A	0-24A	0-22A	0-19A	995



5¼" metered full-rack

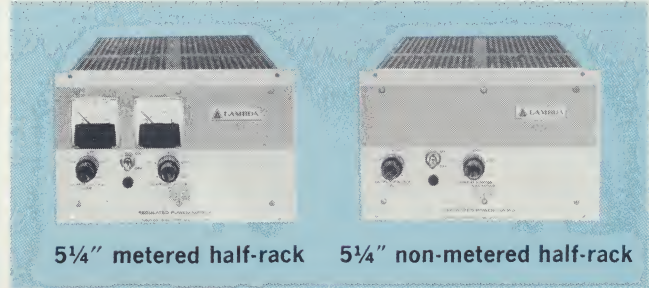
5¼" non-metered full-rack

Size 5¼" x 19" x 16½"

Model ²	Voltage Range	CURRENT RANGE AT AMBIENT OF: ¹				Price ²
		40°C	50°C	60°C	71°C	
LK 350	0-20VDC	0-35A	0-31A	0-26A	0-20A	\$675
LK 351	0-36VDC	0-25A	0-23A	0-20A	0-15A	640
LK 352	0-60VDC	0-15A	0-14A	0-12.5A	0-10A	650



GUARANTEED FOR 5 YEARS

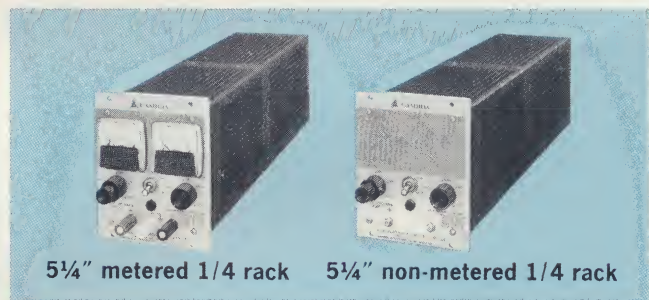


5¼" metered half-rack 5¼" non-metered half-rack

Size 5½" x 8¾" x 15½"

Model ²	Voltage Range	CURRENT RANGE AT AMBIENT OF: ¹				Price ²
		30°C	50°C	60°C	71°C	
LH 119	0-10VDC	0- 9.0A	0- 8.0A	0- 6.9A	0-5.8A	\$289
LH 122	0-20VDC	0- 5.7A	0- 4.7A	0- 4.0A	0-3.3A	260
LH 125	0-40VDC	0- 3.0A	0- 2.7A	0- 2.3A	0-1.9A	269
LH 128	0-60VDC	0- 2.4A	0- 2.1A	0- 1.8A	0-1.5A	315
LH 131	0-120VDC	0- 1.2A	0- 0.9A	0- 0.8A	0-0.6A	320

Model ²	Voltage Range	CURRENT RANGE AT AMBIENT OF: ¹				Price ²
		40°C	50°C	60°C	71°C	
LK 340	0-20VDC	0- 8.0A	0- 7.0A	0- 6.1A	0-4.9A	\$330
LK 341	0-20VDC	0-13.5A	0-11.0A	0-10.0A	0-7.7A	385
LK 342	0-36VDC	0- 5.2A	0- 5.0A	0- 4.5A	0-3.7A	335
LK 343	0-36VDC	0- 9.0A	0- 8.5A	0- 7.6A	0-6.1A	395
LK 344	0-60VDC	0- 4.0A	0- 3.5A	0- 3.0A	0-2.5A	340
LK 345	0-60VDC	0- 6.0A	0- 5.2A	0- 4.5A	0-4.0A	395



5¼" metered 1/4 rack 5¼" non-metered 1/4 rack

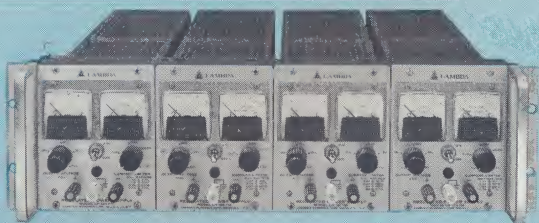
Size 5½" x 4¾" x 15½"

Model ²	Voltage Range	CURRENT RANGE AT AMBIENT OF: ¹				Price ²
		30°C	50°C	60°C	71°C	
LH 118	0-10VDC	0-4.0A	0-3.5A	0-2.9A	0-2.3A	\$175
LH 121	0-20VDC	0-2.4A	0-2.2A	0-1.8A	0-1.5A	159
LH 124	0-40VDC	0-1.3A	0-1.1A	0-0.9A	0-0.7A	154
LH 127	0-60VDC	0-0.9A	0-0.7A	0-0.6A	0-0.5A	184
LH 130	0-120VDC	0-0.50A	0-0.40A	0-0.35A	0-0.25A	225

NOTES:

- Current rating applies over entire voltage range.
- Prices are for non-metered models except for models LK360FM thru LK362FM which are not available without meters. For metered models, add suffix (FM) and add \$25 to price of LH models; add \$30 to price of LK models.
- Overvoltage Protection: add suffix (OV) to model number and add \$60 to the price of LH models; add \$70 to price of half-rack LK models; add \$90 to price of 5¼" full-rack LK models; add \$120 to price of 7" LK models.
- Chassis Slides for full rack models: Add suffix (CS) to model number and add \$60 to the price.

FOR RACK USE

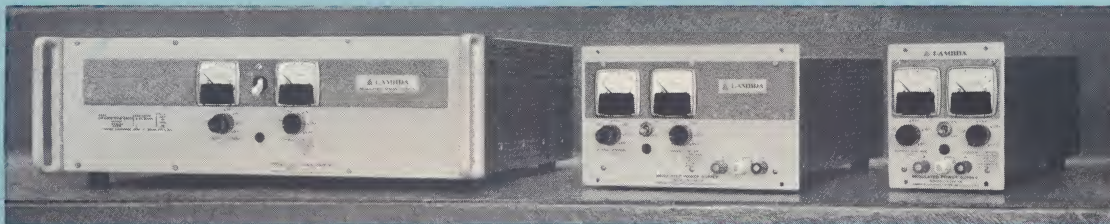


4 DC outputs in a single rack



Two LK Series models mounted in LRA-1 Rack Adapter

FOR BENCH USE



Rubber feet provided for bench use (on full rack models the rack mounting flanges are removable)

LK-LH SERIES DATA

DC OUTPUT

Regulated Voltage.

Regulation (line or load) .015% or 1mV (whichever is greater) for line variations from 105-132 VAC (LK Models) or from 105-135 VAC (LH Models) or load variations from 0 to full load.

Remote Programming

Resistance 200 ohms/volt.

Voltage Volt per volt.

Ripple and Noise . 500µV RMS; with either pos. or neg. terminal grounded, LK Models. 250µV RMS; 1mV p. to p. with either pos. or neg. terminal grounded, LH Models.

Temp. coef. 0.015% per °C.

CONSTANT CURRENT: (Current regulated line and load):

Automatic Crossover.

Voltage Range As shown in tables.

Current Range Minimum (LK Models)—5% of 40° Rating. Minimum (LH Models)—20% of 30° Rating. Maximum—As shown in tables.

Regulation (line or load)

LK Models Less than 10mA or .1% whichever is greater for Input Variations of 105-132 VAC and from 0 to rated VDC load voltage change.

LH Models Less than 15mA for Input Variations of 105-135 VAC and from 0 to rated VDC load voltage change.

Ripple and Noise (LH only) Less than 1.0mA RMS either pos. or neg. terminal grounded.

CONSTANT CURRENT: (Current regulated line and load):

High Precision: Barrier Strip Reconnection. LH Models only.

Voltage Range As shown in tables.

Current Range 5% to 100% of Current Ratings at any ambient temperature as shown in table.

Regulation (line or load) Less than .05% or 0.5mA whichever is greater for Input Variations of 105-135 VAC and from 0 to rated VDC load voltage change.

Ripple and Noise Less than 0.5mA RMS either pos. or neg. terminal grounded.

AC INPUT:

Models LK 360FM thru LK 362FM 200-250 VAC, 57-63 Hz with derating for 50 cps operation.

Other LK Models 105-132 VAC, 57-63 Hz with derating for 50 cps operation.

LH Models 105-135 VAC, 45-480 Hz.

AMBIENT OPERATING TEMPERATURE:

LK Models Continuous duty from 0° to +71°C with load current ratings shown in tables.

LH Models Continuous duty from -20° to +71°C with load current ratings shown in tables.

STORAGE TEMPERATURE: -55°C to +85°C.

OVERLOAD PROTECTION:

Thermal Thermostat; automatic reset when over-temp. condition is removed.

Electrical:

External Overload

Protection Adjustable, automatic electronic current limiting circuit limits the output current to the present value, thereby providing protection for load as well as power supply. Current limiting settability to 105% of rated current.

Internal Failure

Protection Provided by fuse.

INPUT & OUTPUT

CONNECTIONS:

Terminal block on rear of chassis; five-way binding posts on front panel of LH models with suffix (FM) only.

METERS:

Voltmeter and ammeter on suffix (FM) models.

CONTROLS:

(Consult Instruction Manual for specific instructions)

DC output

controls LK: Coarse and fine voltage adjust and coarse and fine current adjust on front panel.

LH: Coarse and fine voltage adjust, single current adjust, on front panel.

Remote Sensing Provision is made for remote sensing to eliminate effect of power output lead resistance on DC regulation.

Power Switch on front panel.

PHYSICAL DATA:

Weight LH 118, 121, 124, 127, 130—14 lbs. net, 18 lbs. ship.

LH 119, 122, 125, 128, 131—25 lbs. net, 30 lbs. ship.

LK 340 thru LK 345—36 lbs. net, 41 lbs. ship.

LK 350 thru LK 352—95 lbs. net, 125 lbs. ship.

LK 360 FM thru LK 362 FM—135 lbs. net, 170 lbs. ship.

Panel Finish Brushed aluminum clear anodized panels with grey inlay (standard).



LAMBDA ELECTRONICS CORP.

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